

We claim:

1. An in-vivo device comprising:
 - a semi-rigid shell defining an interior portion; and
 - a stress or pressure sensor connected to the shell and disposed within the interior portion.
2. The device of claim 1 wherein the sensor is integral with the shell.
3. The device of claim 1 wherein the sensor is attached to the shell.
4. The device of claim 1 wherein the sensor is ring shaped.
5. The device of claim 1 wherein the sensor is to, in response to strain on the shell, generate a signal.
6. The device of claim 1 wherein the shell includes a portion which deforms in response to pressure.
7. The device of claim 1 wherein the shell includes a stress-responsive element.
8. The device of claim 1 comprising a power source.
9. The device of claim 1 comprising an imager.
10. The device of claim 1 comprising a transmitter.
11. The device of claim 1 wherein the sensor is integral with the shell.
12. The device of claim 1 comprising an illumination unit to produce illumination in proportion to a signal from the sensor.
13. An in-vivo device comprising:
 - a fluid filled space; and
 - a pressure gauge in connection with the space.
14. The device of claim 13, wherein the pressure gauge is disposed within the space.
15. The device of claim 13, comprising a shell surrounding the space.
16. The device of claim 13, wherein the shell is pliant.
17. The device of claim 13 comprising a power source.
18. The device of claim 13 comprising an imager.
19. The device of claim 13 comprising a transmitter.
20. An in-vivo device comprising:
 - a pressure sensor; and
 - a sensing device for sensing in-vivo data other than pressure.

21. The device of claim 20, comprising a shell, wherein the pressure sensor is integral with the shell.
22. The device of claim 20 comprising a power source.
23. The device of claim 20 wherein the sensing device includes an imager.
24. The device of claim 20 comprising a transmitter.
25. The device of claim 20 comprising an illumination unit.
26. The device of claim 20 comprising an illumination unit to produce illumination in proportion to a signal from the pressure sensor.
27. A system for collecting in-vivo data, the system comprising:
 - a receiving unit to receive stress or pressure data from an in-vivo device; and
 - a controller to analyze the stress or pressure data.
28. The system of claim 26, wherein the controller is to determine a location of the in-vivo device.
29. The system of claim 26, wherein the controller is to determine that the in-vivo device has passed from one area of a gastrointestinal tract to another.
30. A method for collecting in-vivo data, the method comprising:
 - receiving stress or pressure data from an in-vivo device; and
 - analyzing the stress or pressure data.
31. The method of claim 30, comprising determining a location of the in-vivo device.
32. The method of claim 30, comprising determining that the in-vivo device has passed from one area of a gastrointestinal tract to another.
33. A system for collecting in-vivo pressure data, the system comprising:
 - a receiving unit to receive stress or pressure data from an in-vivo device; and
 - a controller to analyze the stress or pressure data.
34. An in-vivo device comprising:
 - a shell means for forming at least part of the device; and
 - a stress or pressure sensor means for sensing stress or pressure
35. An in-vivo device comprising:
 - a stress or pressure sensor means for sensing stress or pressure; and

a sensing means for sensing in-vivo data other than stress and pressure.

36. An in-vivo device comprising:

a container defining an interior portion;

a transmitter; and

a ring shaped pressure sensor connected to the container.